AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Original) An as-grown single crystal of alkaline earth metal fluoride produced by a single crystal pulling method and having a straight barrel part diameter of not less than 17 cm and a light transmittance, as measured at a wavelength of 632.8 nm, of not less than 80%.
- 2. (Original) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the main crystal growth plane is the {111} plane.
- 3. (Original) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 1, wherein the main crystal growth plane is the {100}plane.
- 4. (Currently Amended) The as-grown single crystal of alkaline earth metal fluoride as claimed in any one of claims 1 to 3 claim 1, wherein the straight barrel part has a length of not less than 5 cm.
- 5. (Currently Amended) The as-grown single crystal of alkaline earth metal fluoride as claimed in any one of claims 1 to 4claim 1, wherein the alkaline earth metal fluoride is calcium fluoride.
- 6. (Currently Amended) The as-grown single crystal of alkaline earth metal fluoride as claimed in any one of claims 1 to 4claim 1, wherein the alkaline earth metal fluoride is barium fluoride.
- 7. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 2, wherein the straight barrel part has a length of not less than 5 cm.
- 8. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 3, wherein the straight barrel part has a length of not less than 5 cm.
- 9. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 2, wherein the alkaline earth metal fluoride is calcium fluoride.

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10. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 3, wherein the alkaline earth metal fluoride is calcium fluoride.

- 11. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 4, wherein the alkaline earth metal fluoride is calcium fluoride.
- 12. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 2, wherein the alkaline earth metal fluoride is barium fluoride.
- 13. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 3, wherein the alkaline earth metal fluoride is barium fluoride.
- 14. (New) The as-grown single crystal of alkaline earth metal fluoride as claimed in claim 4, wherein the alkaline earth metal fluoride is barium fluoride.

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